



**Weston Solutions, Inc.**  
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August 25, 2017

Dean Kinney  
Petroleum Tank Cleanup Section  
Montana Department of Environmental Quality  
P.O. Box 200901  
Helena, MT 59620

Jeff and Merilee Valentine  
115 Allegiance Way  
Missoula, MT 59803

**Re: Additional Corrective Action Plan and Budget for Petroleum Release at Farm Bureau Insurance/Checker's Beauty, 13 3<sup>rd</sup> Avenue East, Polson, Lake County, Montana, DEQ Facility ID 56-13843, Release #3347, Work Plan ID#10687**

Dear Mr. Kinney:

Weston Solutions, Inc. (WESTON) has been retained by Mr. Jeff Valentine (Client) to provide environmental consulting services related to petroleum release #3347 at Farm Bureau Insurance/Checker's Beauty (Site) in Polson, Montana. Owing to the presence of petroleum hydrocarbons present above risk-based screening levels, additional investigation is necessary to verify groundwater concentrations in the vicinity of the Site. In accordance with the Montana Department of Environmental Quality (MDEQ) Additional Corrective Action and Work Plan request letter, dated August 18, 2017, WESTON is proposing the following work to occur:

- 1) WESTON will procure the subcontracted services of: a private utility locator, a professional direct-push drilling company, a professional analytical laboratory, and a professional surveying company.
- 2) WESTON will mobilize to the Site prior to the commencement of field activities to meet and coordinate with public and private utility locators. This task will include contacting the Montana Utility Notification Center (Montana 811) as well as the procurement of a private utility locator. All potential boring and well locations will be marked and cleared of any utilities before work commences.
- 3) WESTON will identify potential receptors and migration pathways in the area of contamination and possible migration and will prepare a Receptor Survey to be submitted with the final AR-07 Report.
- 4) WESTON will utilize a direct-push drill rig in order to complete up to 11 soil borings to a maximum depth of 25' below ground surface (bgs). Proposed soil boring locations will include up to two (2) borings up-gradient of the source, up to seven (7) borings down-gradient of the source, one (1) cross-gradient boring, and one (1) boring at the location of the highest contamination from the previous (March 2017) investigation. During the advancement of each borehole, WESTON will classify and record soils on standard lithologic logs. WESTON will complete field screenings of each boring at regular intervals using a photoionization detector (PID), using standard headspace technique. WESTON will collect a total of four (4) soil samples: one (1) soil sample from the up-gradient boring closest to the source, one (1) soil sample from the closest down-gradient





boring, one (1) soil sample from the closest cross-gradient boring, and one (1) duplicate soil sample for Quality Assurance/Quality Control (QA/QC) purposes. The soil sample will be collected from the depth interval with the highest PID reading within each of the three (3) borings. All soil samples will be sent to Pace Laboratories in Billings, Montana to be analyzed for volatile petroleum hydrocarbons (VPH) and extractable petroleum hydrocarbons (EPH) screen, with fractionation if the EPH screen exceeds 200 mg/kg.


- 5) WESTON will convert up to five (5) of the soil borings to 2" groundwater monitoring wells. The proposed groundwater monitoring wells will include up to one (1) well up-gradient of the source, up to three (3) wells down-gradient and cross-gradient of the source, and one (1) in-source well. The depths of the proposed wells will not exceed 25' bgs. Groundwater monitoring wells will include up to 15' of screen, and screened intervals will be determined in the field based on Site conditions.
- 6) WESTON will procure a professional surveying subcontractor to survey all installed monitoring wells on-Site.
- 7) WESTON will complete two (2) semi-annual groundwater monitoring events at each of the installed groundwater monitoring wells on-Site. During each sampling event, one (1) groundwater sample will be collected from each well and one (1) duplicate sample will also be collected for QA/QC purposes. All groundwater samples will be sent to Pace Laboratories in Billings, Montana to be analyzed for volatile petroleum hydrocarbons (VPH) and extractable petroleum hydrocarbons (EPH) screen, with fractionation if the EPH screen exceeds 1000 mg/L.
- 8) WESTON will prepare a Release Closure Plan and submit this with the final report.
- 9) WESTON will prepare and submit one Abbreviated Corrective Action Report (AR-07) that includes a figure with boring and well locations, boring logs and well completion details, groundwater flow direction, tabulated data for the depth to water, and chemical parameters.

### Project Schedule

Task	Completion Date
Item 1: Procurement	September 2017
Items 2-7: Pre-Investigation Walk-Thru/Utility Locates; Field activities	September/October 2017 (Groundwater monitoring also in Spring 2018)
Items 8-9: Reporting	Spring/Summer 2018

Enclosed with this report is a cost estimate.

Respectfully submitted,

Written by:   
Andrew Funk, Associate Scientist III  
Weston Solutions, Inc.

25 August 2017  
Date



Reviewed by:                       
Hayden Janssen, Senior Project Lead  
Weston Solutions, Inc.

25 August 2017  
Date

Ec: Ann Root, PTRCB, [ARoot@mt.gov](mailto:ARoot@mt.gov)  
Jeff and Merilee Valentine

Encl: Cost Estimate

## Cost Estimate

Farm Bureau Insurance/Checker's Beauty

Date: 8/25/2017

Facility ID# 56-13843

Release# 3347

Work Plan ID#: 10687

Weston Project # 15478.005.001

TASK	Rate	Units	Quantity	Total
<b>Task 1: Work Plan Prep</b>				
Tech III, CAP-AC-07	\$95.00	hr	8	\$760.00
Project Manager, CAP AC-07 Review	\$117.00	hr	3	\$351.00
			<b>Subtotal:</b>	<b>\$1,111.00</b>
<b>Task 2: Project MGMT</b>				
Staff Scientist coord with MDEQ, project bidding, contractor coordination, project scheduling, procurement, HASP, etc.	\$102.00	hr	24	\$2,448.00
			<b>Subtotal:</b>	<b>\$2,448.00</b>
<b>Task 3: Utility Locates</b>				
Subcontracted Utility Locator	\$816.00	bid	1	\$873.12
Travel Mileage	\$0.54	miles	400	\$214.00
Tech III, Travel time R/T	\$95.00	hr	7	\$665.00
Per Diem	\$23.00	day	1	\$23.00
Lodging	\$97.00	night	1	\$97.00
Tech III, coordinate utility locates with public and private utility locator (in-field)	\$95.00	hr	4	\$380.00
			<b>Subtotal:</b>	<b>\$2,252.12</b>
<b>Task 4: Groundwater Monitoring Travel</b>				
Travel Mileage (1st GWM Event, Fall 2017)	\$0.54	miles	400	\$214.00
Tech III, Travel (1st Event, Fall 2017)	\$95.00	hr	7	\$665.00
Per Diem (1st Event, Fall 2017)	\$23.00	day	1	\$23.00
Lodging (1st Event, Fall 2017)	\$97.00	night	1	\$97.00
Travel Mileage (2nd GWM Event, Spring 2018)	\$0.54	miles	400	\$214.00
Tech III, Travel (2nd Event, Spring 2018)	\$95.00	hr	7	\$665.00
Per Diem (2nd Event, Spring 2018)	\$23.00	day	2	\$46.00
Lodging (2nd Event, Spring 2018)	\$97.00	night	1	\$97.00
			<b>Subtotal:</b>	<b>\$2,021.00</b>
<b>Task 5: Groundwater Well Installation</b>				
Subcontracted Direct-Push Drill services	\$10,677.00	bid	1	\$11,424.39
Tech III, installation of 5 monitoring wells and 11 soil borings (assume 4 days)	\$95.00	hr	32	\$3,040.00
Per Diem	\$23.00	day	5	\$115.00
Lodging	\$97.00	night	5	\$485.00
Subcontracted Surveying Services	\$3,657.00	bid	1	\$3,912.99
IDW Disposal	\$1,500.00	per	1	\$1,500.00
			<b>Subtotal:</b>	<b>\$20,477.38</b>
<b>Task 6: Receptor Survey</b>				
Travel Mileage	\$0.54	miles	400	\$214.00
Tech III, Travel	\$95.00	hr	7	\$665.00
Per Diem	\$23.00	day	1	\$23.00
Lodging	\$97.00	night	1	\$97.00
Tech III, in-office and in-field	\$95.00	hr	11	\$1,045.00
			<b>Subtotal:</b>	<b>\$2,044.00</b>
<b>Task 7: Groundwater Investigation</b>				

Groundwater Acquisition (+ QA/QC- Fall 2017)	\$175.00	per	6	\$1,050.00
Groundwater Acquisition (+ QA/QC- Spring 2018)	\$175.00	per	6	\$1,050.00
			<b>Subtotal:</b>	<b>\$2,100.00</b>

#### **Task 8: Analytical**

VPH/EPH (soil + QA/QC, Fall 2017)	\$240.00	per	4	\$960.00
VPH/EPH (groundwater + QA/QC, Fall 2017)	\$255.00	per	6	\$1,530.00
VPH/EPH (groundwater + QA/QC, Spring 2018)	\$255.00	per	6	\$1,530.00
PTRCB Handling Fee (Summer 2017)	\$10.00	per	11	\$110.00
PTRCB Handling Fee (Fall 2017)	\$10.00	per	11	\$110.00
			<b>Subtotal:</b>	<b>\$4,240.00</b>

#### **Task 9: Release Closure Plan**

Release Closure Plan (Assume 12 hours of Tech III)	\$1,140.00	per	1	\$1,140.00
			<b>Subtotal:</b>	<b>\$1,140.00</b>

#### **Task 10: Reporting**

AR-07	\$3,155.00	lump	1	\$3,155.00
			<b>Subtotal:</b>	<b>\$3,155.00</b>

**Project Total: \$40,988.50**